

International Energy Outlook 2004

Table 13. World Coal Flows by Importing and Exporting Regions, Reference Case, 2002, 2010, and 2025
(Million Short Tons)

| Exporters | Importers | | | | | | | | | | | |
|----------------------------------|---------------------|--------------|-------------|--------------------|---------------------|-------------------|-------------|--------------------|---------------------|--------------|--------------|--------------------|
| | Steam | | | | Coking | | | | Total | | | |
| | Europe ^a | Asia | America | Total ^b | Europe ^a | Asia ^c | America | Total ^b | Europe ^a | Asia | America | Total ^b |
| 2002 | | | | | | | | | | | | |
| Australia | 11.5 | 94.7 | 3.4 | 110.1 | 29.5 | 79.7 | 5.8 | 115.0 | 41.0 | 174.4 | 9.2 | 225.0 |
| United States..... | 4.2 | 1.6 | 12.9 | 18.8 | 12.4 | 0.0 | 8.4 | 20.8 | 16.6 | 1.6 | 21.3 | 39.6 |
| South Africa..... | 64.3 | 8.2 | 0.7 | 75.0 | 0.6 | 0.0 | 0.6 | 1.3 | 64.9 | 8.2 | 1.3 | 76.3 |
| Former Soviet Union .. | 20.2 | 10.6 | 0.0 | 30.8 | 0.6 | 3.1 | 0.0 | 3.7 | 20.8 | 13.7 | 0.0 | 34.5 |
| Poland | 18.4 | 0.0 | 0.0 | 18.7 | 2.3 | 0.0 | 0.3 | 2.6 | 20.7 | 0.0 | 0.3 | 21.4 |
| Canada | 0.2 | 2.0 | 1.5 | 3.7 | 7.3 | 14.9 | 3.6 | 25.8 | 7.5 | 16.9 | 5.1 | 29.6 |
| China | 2.0 | 72.0 | 3.7 | 77.7 | 0.3 | 12.7 | 1.7 | 14.6 | 2.3 | 84.7 | 5.4 | 92.3 |
| South America ^d | 29.2 | 0.0 | 18.4 | 47.5 | 0.0 | 0.0 | 0.0 | 0.0 | 29.2 | 0.0 | 18.4 | 47.5 |
| Indonesia ^e | 12.5 | 60.3 | 2.4 | 75.2 | 0.1 | 14.3 | 0.1 | 14.6 | 12.6 | 74.6 | 2.5 | 89.8 |
| Total | 162.4 | 249.3 | 43.0 | 457.4 | 53.0 | 124.7 | 20.5 | 198.5 | 215.4 | 374.0 | 63.5 | 656.0 |
| 2010 | | | | | | | | | | | | |
| Australia | 8.4 | 121.6 | 0.8 | 130.8 | 33.3 | 90.4 | 9.7 | 133.5 | 41.7 | 211.9 | 10.6 | 264.2 |
| United States..... | 6.4 | 0.7 | 13.6 | 20.7 | 9.6 | 1.2 | 10.6 | 21.5 | 16.0 | 1.9 | 24.3 | 42.2 |
| South Africa..... | 75.4 | 3.4 | 4.2 | 83.0 | 1.1 | 0.5 | 0.0 | 1.7 | 76.6 | 3.9 | 4.2 | 84.7 |
| Former Soviet Union .. | 25.4 | 15.1 | 0.0 | 40.5 | 0.8 | 4.3 | 0.0 | 5.1 | 26.1 | 19.4 | 0.0 | 45.5 |
| Poland | 9.1 | 0.0 | 0.0 | 9.1 | 1.1 | 0.0 | 0.0 | 1.1 | 10.3 | 0.0 | 0.0 | 10.3 |
| Canada | 1.5 | 0.0 | 0.0 | 1.5 | 12.3 | 9.0 | 7.3 | 28.6 | 13.9 | 9.0 | 7.3 | 30.2 |
| China | 0.0 | 108.0 | 0.0 | 108.0 | 0.0 | 16.0 | 0.0 | 16.0 | 0.0 | 124.1 | 0.0 | 124.1 |
| South America ^d | 46.1 | 0.0 | 41.6 | 87.7 | 0.0 | 0.0 | 0.0 | 0.0 | 46.1 | 0.0 | 41.6 | 87.7 |
| Indonesia ^e | 10.2 | 92.7 | 0.0 | 102.8 | 0.0 | 12.9 | 0.0 | 12.9 | 10.2 | 105.6 | 0.0 | 115.7 |
| Total | 182.5 | 341.5 | 60.3 | 584.3 | 58.3 | 134.3 | 27.7 | 220.3 | 240.9 | 475.7 | 87.9 | 804.6 |
| 2025 | | | | | | | | | | | | |
| Australia | 0.0 | 158.7 | 1.9 | 160.6 | 32.0 | 98.1 | 13.3 | 143.4 | 32.0 | 256.8 | 15.2 | 304.0 |
| United States..... | 0.0 | 0.6 | 11.6 | 12.2 | 7.3 | 1.4 | 5.5 | 14.2 | 7.3 | 2.0 | 17.1 | 26.4 |
| South Africa..... | 67.1 | 19.0 | 6.2 | 92.3 | 0.8 | 0.3 | 0.0 | 1.1 | 67.8 | 19.3 | 6.2 | 93.4 |
| Former Soviet Union .. | 28.7 | 22.0 | 0.0 | 50.7 | 0.8 | 5.0 | 0.0 | 5.7 | 29.4 | 27.0 | 0.0 | 56.4 |
| Poland | 4.4 | 0.0 | 0.0 | 4.4 | 0.6 | 0.0 | 0.0 | 0.6 | 5.0 | 0.0 | 0.0 | 5.0 |
| Canada | 1.5 | 0.0 | 0.0 | 1.5 | 8.1 | 9.7 | 9.9 | 27.7 | 9.7 | 9.7 | 9.9 | 29.2 |
| China | 0.0 | 115.8 | 0.0 | 115.8 | 5.2 | 16.4 | 2.6 | 24.3 | 5.2 | 132.1 | 2.6 | 140.0 |
| South America ^d | 69.1 | 0.0 | 59.4 | 128.4 | 0.0 | 0.0 | 0.0 | 0.0 | 69.1 | 0.0 | 59.4 | 128.4 |
| Indonesia ^e | 0.0 | 123.1 | 0.0 | 123.1 | 0.0 | 12.9 | 0.0 | 12.9 | 0.0 | 136.0 | 0.0 | 136.0 |
| Total | 170.7 | 439.1 | 79.1 | 689.0 | 54.8 | 143.7 | 31.3 | 229.8 | 225.5 | 582.9 | 110.4 | 918.8 |

^aCoal flows to Europe include shipments to the Middle East and Africa.

^bIn 2002, total world coal flows include a balancing item used by the International Energy Agency to reconcile discrepancies between reported exports and imports. The 2002 balancing items by coal type were 2.5 million tons (steam coal), 0.3 million tons (coking coal), and 2.8 million tons (total).

^cIncludes 12.9 million tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers in 2002.

^dCoal exports from South America are projected to originate from mines in Colombia and Venezuela.

^eIn 2002, coal exports from Indonesia include shipments from other countries not modeled for the forecast period. The 2002 non-Indonesian exports by coal type were 7.4 million tons (steam coal), 1.7 million tons (coking coal), and 9.0 million tons (total).

Notes: Data exclude non-seaborne shipments of coal to Europe and Asia. Totals may not equal sum of components due to independent rounding. The sum of the columns may not equal the total, because the total includes a balancing item between importers' and exporters' data.

Sources: **2002:** SSY Consultancy and Research, Ltd., *SSY's Coal Trade Forecast*, Vol. 12, No. 3 (London, UK, June 2003); and Energy Information Administration, *Quarterly Coal Report*, October-December 2002, DOE/EIA-0121(2002/4Q) (Washington, DC, March 2003). **2010 and 2025:** Energy Information Administration, National Energy Modeling System run IEO2004.D022304A (February 2004).